

COMPUTER SCIENCE

COLLEGE OF SANTA FE (CSF) offers a Bachelor of Science (B.S.) degree in Computer Science through its Evening & Weekend Degree Programs.

Special features include:

- ♦ Year-round classes on evenings and weekends
- ♦ Nine-week terms for most class offerings
- ♦ Small classes that emphasize seminar and discussion formats
- ♦ Individual attention from academic advisors
- ♦ Dedicated and experienced faculty
- ♦ A strong foundation in the liberal arts

The Computer Science program is designed to provide students with the knowledge and skills to become an active part of the rapidly expanding field of computer technology. The program can be tailored to satisfy a variety of computer-related interests. Students may pursue one of five available concentrations: Business, Networks, Programming, Research & Development, and Web Site.

FACULTY

Evening and weekend classes are taught by full-time College of Santa Fe faculty and by adjuncts who are experienced professionals in their fields. Instructors utilize an array of contemporary instructional methodologies and innovative teaching styles in their courses. Course curricula are designed to emphasize the crucial balance between theory and practice.

LIBERAL TRANSFER POLICY

Many students entering the evening and weekend program have earned credit from prior college experiences. CSF generally accepts transfer credit from other accredited colleges and universities for non-remedial academic work with an earned grade of "C-" or better.

PRIOR LEARNING PORTFOLIO

Prior Learning Portfolio (PLP) is a two-credit independent study course that offers students the opportunity to earn credit for college-level learning gained through life and work experience. With the guidance of a faculty advisor, students prepare a portfolio to describe and document their learning in detail. They then submit the portfolio for review by faculty evaluators to determine credit earned. Students may earn up to 48 credit hours toward their degree through PLP.

COMPUTER SCIENCE

I. LIBERAL ARTS CORE (36 credits)

HUM 355 Integrating Seminar	(3)
Humanities / Fine Arts (maximum of 3 credits/category) Religion, Literature, Non-applied Fine Arts	(6)
Ethics	(3)
Social Science (maximum of 3 credits/category) Sociology, Psychology, History, Political Science, Anthropology	(6)
Science	(3)
Mathematics (non-remedial)	(3)
CMS 101 Introduction to Computer Science	(3)
English Composition (non-remedial)	(6)
Speech	(3)

II. COMPUTER SCIENCE

REQUIREMENTS (36 credits*)

CMS 204 Programming Concepts	(3)
CMS 305 C++ Programming**	(3)
CMS 310 Intro to Computer Organization	(3)
CMS 321 Data Structures & Algorithm Analysis	(3)
CMS 335 Object Oriented Programming **	(3)
CMS 370 Systems Analysis	(3)
CMS 405 Advanced C++ Programming **	(3)
CMS 462 Networks I	(3)
CMS 476 Database Management Design I	(3)
CMS 477 Database Management Design II	(3)
CMS *** Computer Science Elective	(3)
CMS *** Upper Division Comp Sci Elective	(3)

** May substitute the Java series (CMS 372, 373, 374) for the C++ series (CMS 305, 335, 405)

III. MATHEMATICS & SCIENCE

REQUIREMENTS (29 credits*)

MTH 120 Precalculus	(4)
MTH 133 Finite Math	(3)
MTH 150 Calculus I	(4)
MTH 151 Calculus II	(4)
MTH 340 Probability with Statistical Apps I	(3)

PHY 101 Introduction to Physics I	(4)
PHY 102 Introduction to Physics II	(4)
*** ** Science Elective	(3)

* At least 15 credit hours of the Computer Science and Math & Science requirements must be taken at CSF/CSFA from the Sciences and Conservation Studies Department

IV. CONCENTRATIONS

BUSINESS CONCENTRATION (12 credits)

BUS 310 Management Principles	(3)
BUS 410 Organizational Behavior	(3)
BUS 411 Organizational Theory & Design	(3)
BUS *** Upper Division Business Elective	(3)

NETWORKS CONCENTRATION (12 credits)

CMS 463 Networks II	(3)
CMS 465 Server Installation & Configuration	(3)
CMS 467 Computer Security	(3)

CMS *** Upper Division Comp Sci Elective	(3)
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PROGRAMMING CONCENTRATION (12 credits)

CMS *** Second programming language I	(3)
CMS *** Second programming language II	(3)

CMS 404 Theory & Organization of Prog Lang	(3)
CMS 450 Computer Science Problems	(3)

RESEARCH & DEV. CONCENTRATION (12 credits)

CMS 404 Theory & Organization of Prog Lang	(3)
CMS 410 Operating Systems	(3)
CMS 450 Computer Science Problems	(3)
CMS *** Upper Division Comp Sci Elective	(3)

WEBSITE CONCENTRATION (12 credits)

CMS 340 Web Scripting	(3)
CMS 364 Website Management I	(3)
CMS 365 Website Management II	(3)
CMS 367 Server Pages	(3)

V. ELECTIVES (15 credits)

TOTAL CREDITS FOR DEGREE 128